

# ORLEANS COUNTY AGRICULTURAL ASSOCIATION

OFFICERS: PRESIDENT, H. C. Cleveland, Coventry; VICE-PRESIDENT, C. H. Root, Craftsbury; SECRETARY-TREASURER, C. W. Richmond, Newport

RAY E. DEUEL, County Agent and Editor of Agricultural News,

EXECUTIVE COMMITTEE: S. E. Gray, Morgan; S. T. Vance, Glover; C. T. Metcalf, Irasburg; A. R. Wells, Newport, and Officers

Newport, Vermont. Telephone 238-12

## OFFICIAL PUBLICATION

### Notes

In this issue of the agricultural news we have taken up the methods which seem to have given the best results in handling the oat and corn crop, and during the spring months we shall continue this policy of crop articles. Next month we expect to take up the grass and alfalfa articles.

The local meetings of the last series have been very well attended, in fact, in several localities the largest number have been in attendance of any series.

The following list gives the local chairmen and advisory committee elected as far as the meetings have been held.

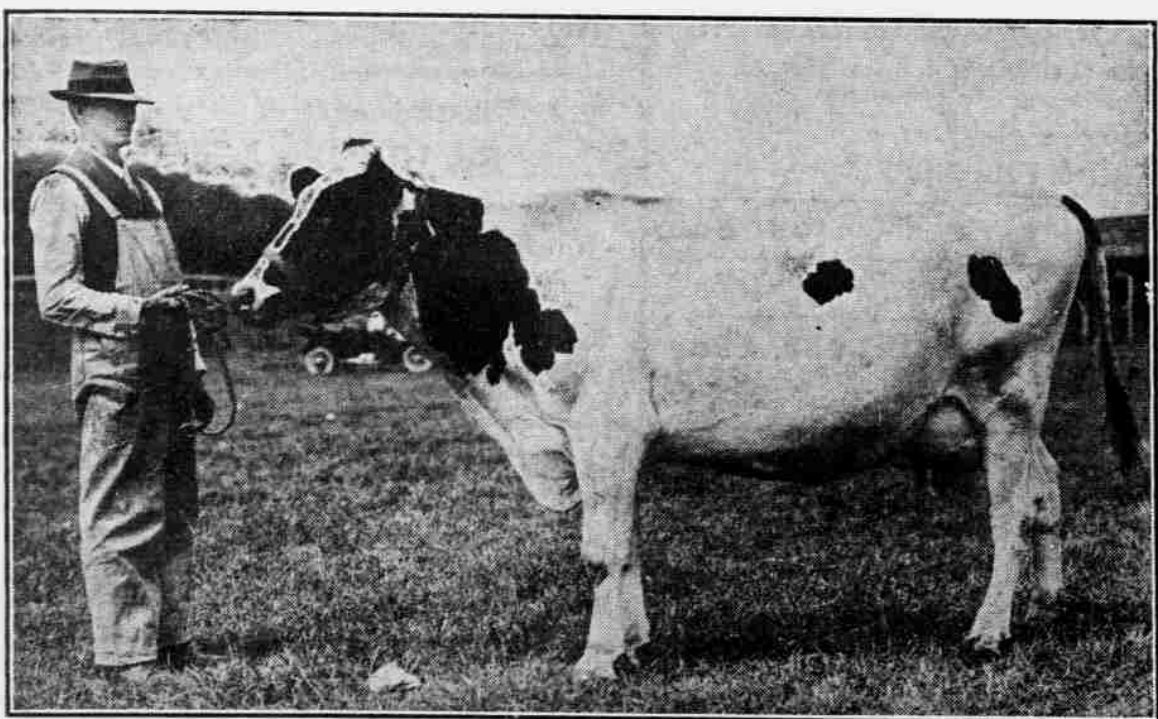
Town	Local Chairman	Advisory Committee
Craftsbury	C. R. Smith	E. A. Dutton
Barre	F. A. Leavelle	E. A. Dutton
Westmore	G. L. Nutting	E. A. Dutton
Charleston	G. L. Nutting	E. A. Dutton
Derby	F. A. Leavelle	E. A. Dutton
Holland	A. R. Hall	E. A. Dutton
Glover	E. C. Baker	E. A. Dutton
Greensboro	E. L. Wilson	E. A. Dutton
Albany	A. N. Vance	E. A. Dutton
So. Albany	S. W. Williams	E. A. Dutton
Morgan	B. R. Merrill	E. A. Dutton

Quite a number of farmers have given their names to the county agent that they are willing to conduct some sort of a demonstration, but the number is not as large as it ought to be and if you are willing to conduct a demonstration and have not given your name to the county agent please do so at once. It is not the plan to do the demonstration work upon anyone, and if any locality does not have its share of demonstrations it will mean that the members of the association in that community have not made their desire of a demonstration known to the county agent.

The secretary's books show that there are 210 farmers who have paid their dues to date. This is a large increase over the paid membership at the same period last year, and especially in new membership secured. Judging from this it would indicate that the association is in a thrifty condition, and more farmers are beginning to appreciate what the association can mean to the individual farmer.

The town of Brighton voted \$100 to the Orleans County Agricultural Association at their town meeting. This is for the purpose of receiving benefit of the association and the county agent. The farmers of the town of Brighton felt that they would like the advantages of such an association and took the matter up with the executive committee of the association. The executive committee offered to accept the town of Brighton into the association for the amount expressed. The association welcomes the town of Brighton and wishes to compliment them on their success. It shows what a live group of farmers can accomplish in about a month's time of agitation. The county agent is looking forward with much pleasure to the work in Brighton as the farmers seem interested and very aggressive. Already quite a number have paid their dues and are going to do their share to get their money's worth out of the association. This is the privilege of every member of the association and it is his fault if he does not get his money's worth.

### Mr. Bean's Champion Stock



C. W. Bean of West Glover has given the county information in regard to this month's issue. Mr. Bean is probably one of the most fortunate breeders in the state of Vermont today. A couple of years ago he purchased his herd sire, Sir Jette Burke Pietefje 122940, of S. D. Nichols of Lyndonville, and he was sired by Sir Pietefje Solden. He is a bull of splendid dairy type and has won first prize at the Barton fair in his class, for two consecutive years.

The first good news which has increased the value of Mr. Bean's herd sire was received last fall when Eva May Ellis 5th, which was bred by Mr. Nichols and now owned by the Allamuchy Farms, New Jersey, broke the two-year-old record for the breed, producing 31.39 pounds of butter and 507.5 pounds of milk in seven days. This cow is sired by the same bull that Mr. Bean's herd sire is, and the breeding of the dam's side of both is practically the same, coming from the foundation cow of Mr. Nichols's herd, Jette Johanna. Besides this herd sire, there are several others of practically the same breeding which have made creditable records.

Just recently comes the news of the large record of the cow Mr. Bean recently sold to Dr. J. G. Whitney of Montpelier, named Piella Mechthilde. This cow made 35.31 pounds of butter and 531.7 pounds of milk in seven days. This is a world champion record for a cow of ten years old or over, besides being one of the largest records ever

### Crop Suggestions for Corn and Oats

Points on the Different Crops as a Result of Two Seasons' Observations and Demonstrations by the County Agent

The average crop production of Orleans county farms is high, which proves that our soil is fertile and well managed on the whole. Of course there are farms that are not well managed and are not producing high yields, but these are few and do not have a very great influence on the average. The high yield of crops is due to the benefits derived from the use of the large amount of farm manure made by the large number of cows kept in proportion to the number of tillable acres. The crop of Orleans county for the year 1914 averages as follows:

Stilage per acre 12 tons  
Oats per acre 57 bus.  
Hay per acre 1.4 tons

If these yields are compared with those of other counties or localities, it will be found that they are equal to the best and exceed most by a good margin. It is not the aim of the county agent in writing this article to give the impression that by following the results of the demonstration work the crops can be doubled or tripled, although there is opportunity of increasing the yield with profit, as was demonstrated last year by the use of chemical fertilizer for top-dressing on meadows, but there is undoubtedly a greater opportunity of increasing the yield of the hay crop than with any other crop. It is believed that the results of the demonstrations can offer suggestions on better management of crops, and higher quality, especially the feeding value, which is a most important factor in Orleans county, since practically all the crops grown are fed to livestock.

#### OAT CROP

The oat crop presents three problems: the presence of kale, the presence of more or less smut, and overgrowth of straw which causes lodging and immaturity of seed. All of these problems can be handled with a little labor and a very small expense. Kale is eradicated by spraying with sulphate of iron, which costs not to exceed one dollar per hundred pounds, which is sufficient for an acre. One hundred pounds of sulphate of iron to 50 gallons of water is the formula for making the spray material. It is necessary to have a horse-power sprayer, which can be secured for about \$60, because high pressure and force are required to do the work successfully. The cost of the sprayer may seem extravagant, but when two or three neighbors own it together and use it for not only spraying kale but also for potatoes, the cost is very moderate. The spray properly applied will kill 90 per cent of the kale crop.

The oat smut problem is greater than the average farmer realizes. There was considerable smut in oats last year. The county agent on one or two occasions counted as high as 14 per cent of the heads affected. This means practically a loss and in addition a dirty job of threshing. This can be done away with by treating the oats with a solution of formalin, one pint of formalin to 50 gallons of water. Formalin costs 40 cents a pint, which is sufficient for 40 or 50 bushels of seed oats. Anyone can secure detailed

directions upon request to the county agent.

The cause for oats lodging is due to too rich soil and too much seed per acre. Since our soil is rich, the addition of stable manure causes a tremendous growth and weak straw, so that when the first wind comes along they go down and cause loss of straw, grain of light weight, and lower germination of the seed. It is advisable not to use manure with the oat crop, especially when a crop of corn has preceded it and land been manured. What is needed is something to hasten maturity, and check the growth and increase the germination qualities. This has been accomplished by using fertilizer composed of acid and potash, but since potash is out of the question this year, straight acid phosphate will give the desired results to a marked degree, and is relatively cheap. Desirable amounts per acre are 300 to 400 pounds, representing a cost of \$2.85 to \$3.40 per acre in this year's quotations. Then again, too much seed per acre causes weak straw and slow maturity. Two and one-half or three bushels per acre is enough, especially when sown with a drill. If everything is favorable, more seed per acre would probably give a larger yield, but when we have the average rainfall and normal number of windy days the smaller amount of seed will usually come through the winner.

#### THE CORN CROP

The corn crop is an important crop to a dairy-farming section and the aim should be to get as large tonnage per acre as the maturity will permit. In other words, get maturity first, and then tonnage. Farmers are often misled by believing tonnage alone counts. The corn crop doubles in weight of dry matter the last month or six weeks of growth, but will show an actual loss of tonnage, showing a rapid reduction in water content and increase in dry matter. There are several ways to aid in getting corn to mature under our conditions, as listed below:

1. Select an early variety.
2. Do not sow too much seed per acre, ten quarts is enough.
3. Use a fertilizer high in phosphoric acid.
4. Frequent and thorough tillage.

Several varieties of corn have given satisfactory results. Some of the best of these are Early Lakeside, Improved Mastodon, Dibble's Early Yellow Dent, and Vermont Dent. There are others which have equal maturity, but do not make the growth those mentioned. These varieties have a rather large kernel and as a result do not get planted as thickly as do the Sanford variety. If the same number of seeds per acre of the Sanford variety were sown as the other varieties, there would not be such a great difference in the quality of the yield as has appeared in some of the variety tests. Corn, planted as thickly as some farmers plant it, could not mature under the most favorable conditions in a section of country where the season is plenty long enough to mature the late varieties of corn. Proper fertilization will also hasten maturity. A corn fertilizer, to be used in connection with manure, should be composed of a small amount of nitrate of soda, to give it a quick start, and a large amount of acid phosphate to hasten maturity. It will affect the maturity as in the case of oats. Frequent and thorough cultivation will hasten the growth, keep a mulch on the ground and aid in making a most satisfactory crop.

#### CORN AND SOY BEANS

Corn and soy beans is a comparatively new combination for Vermont, and has not been tried out in Orleans county as yet, though several farmers have signified a desire to try it this year as a demonstration. In other counties of the state the farmers are very enthusiastic over it, especially

### Pure-bred Livestock Breeders' Register

The results obtained from the registry during the past month as reported by the pure bred breeders, are very encouraging. The reports show that there have been 17 inquiries and seven sales, amounting to \$443. There are several breeders who did not report this month and it is of considerable importance that each man who places his name on the list do his part to keep the registry up to date.

Name	Address	No. in Herd	Males for Sale	Females for Sale	Character of Records
JERSEY					
E. A. Dutton	Craftsbury	6	2	A.	
C. H. Root	N. Craftsbury	50	3	O. and A.	
D. G. Speir	Greensboro	52	6	12	
H. C. Cleveland	Coventry	7	1	A.	
H. A. Daniels	Craftsbury	6	3	A.	
W. M. Bond	W. Glover	38	3	A.	
W. A. Young	Westfield	10	1	Private	
W. E. Connors	Newport	56	4	A.	
A. P. Niles	Son Derby	80	2	A.	
W. G. Gorman	Coventry	5	1	A.	
F. H. Percival	Glover	10	1	A.	
W. A. Hader	N. Craftsbury	41	1	A.	
HOLSTEIN					
M. Z. Thompson	N. Craftsbury	6	1	A.	
Baker Farms	Greensboro	46	4	O. and A.	
W. H. Smith	Orleans	16	2	A.	
H. E. Gray	Westfield	5	1	O.	
C. W. Bean	W. Glover	15	2	A.	
A. E. Powers	Lowell	15	2	1	A.
E. A. Holbrook	Irasburg	2	1	A.	
AYRSHIRE					
A. J. Anderson	W. Glover	34	4	A.	
B. F. Butterfield	Derby Line	50	1	5	A. and O.
H. L. Todd	Derby	10	1		
SHORTHORN					
F. E. Simpson	W. Glover	33	7	6	Private
BROWN SWISS					
C. R. Kelley	Derby	13	2		
GUERNSEY					
J. L. Wilson	Greensboro	3	1	A.	
Alton White		7			

Official and Association are abbreviated: O. and A. in the above table.

### Cow Testing Associations

The Cow Testing associations this month show the influence of continued testing. The older associations show a higher percentage of cows getting into the list, due to the process of culling out the poorer ones. This should be an encouragement to the younger associations and evidence that the farmers want to stand by it year after year. The county agent has been asked why the registered cows did not show up better in the cow testing associations in comparison with the grades. The opinion was that they did, and the association testers were

### Orleans County Cow Testing Association Records

The following tables give the names and records of the cows in the testing associations which have produced more than 1000 pounds of milk or 40 pounds of butterfat during the month.

LAMOILLE VALLEY ASSOCIATION						
Period 30 Days						
Owner of Cow	Name of Cow	Breed of Cow	Pounds Milk	Per Cent Fat	Pounds Butterfat	
E. A. Baker	16227	Reg. Holst.	1738	5.0	86.4	
" "	16333	" "	1241	3.9	48.4	
" "	16615	" "	1024	4.4	45.1	
" "	19052	" "	1226	3.5	43.4	
" "	16026	" "	1061	3.8	42.5	
" "	20583	" "	1250	3.0	37.5	
" "	23558	" "	1000	3.7	37.7	
" "	" "	Gr. Jersey	1012	5.1	51.6	
A. G. Bronson Est.	Orsona	Reg. "	1055	5.7	50.1	
" "	Vanity	" "	808	5.7	46.1	
C. J. Bell Est.	Miss Belrose	" "	829	5.2	43.1	
" "	Adeline	" "	829	5.0	41.5	
" "	Amelia	" "	1024	4.2	43.1	
Clayton Poronto	" "	" "	799	5.1	40.7	
J. E. Sinnott	Jennie	" "	1287	3.4	43.8	
" "	" "	" "	962	5.0	48.1	
E. W. Orten	Miss Belrose	" "	857	5.0	46.3	
J. B. Lumsden	" "	Gr. Holst.	936	4.4	41.2	
" "	" "	Reg. "	1244	3.2	39.9	
J. I. Wilson	" "	Gr. Guernsey	823	5.3	43.6	
" "	" "	" "	954	4.6	43.9	
" "	" "	" "	869	5.0	43.5	
" "	" "	" "	1000	5.3	53.0	
" "	" "	" "	896	5.5	49.3	
D. G. Speir	Miss Pratt	Reg. Jersey	976	4.3	41.9	
C. E. Lapierre	" "	Gr. Holstein	854	4.9	41.8	
David Peel	" "	" Jersey	777	5.6	43.5	
C. B. Cook	" "	" "	1025	5.3	54.2	
" "	" "	" "	817	5.1	41.7	
" "	" "	" "	924	5.3	49.1	
E. B. Fay	" "	" "	738	5.6	41.3	
John Rowell	" "	Gr. Guernsey	838	5.4	45.3	
" "	" "	" "	869	5.0	43.5	
Bert Russell	Ennice	" Jersey	869	4.9	42.6	
" "	Skumey	" "	915	4.5	44.2	
G. H. Allbee	" "	" Ayrshire	759	5.2	41.5	
" "	" "	" Guernsey	777	5.3	41.2	
" "	" "	" Ayrshire	878	5.0	43.9	
" "	" "	" "	832	4.9	40.6	
" "	" "	" "	814	5.2	42.3	
" "	" "	" "	1000	4.3	43.0	
" "	" "	" "	814	5.2	42.3	
" "	" "	" "	884	5.2	40.0	
G. F. Perkins	Starling	Reg. Holstein	829	5.2	43.1	
" "	Lillst	" "	1677	3.2	53.6	
" "	Pauline	" "	945	4.3	40.6	
" "	Rose	" "	1052	3.9	41.1	
" "	Meg	Gr. "	1000	3.7	37.0	
" "	Rachel	" "	1104	4.2	46.3	
" "	Flora	" "	1037	3.9	40.4	

H. H. Buchanan, Official Tester.

### DERBY ASSOCIATION

Period 30 Days

Owner of Cow	Name of Cow	Breed of Cow	Pounds Milk	Per Cent Fat	Pounds Butterfat
Frank Rice	Hazel	Gr. Jersey	784	5.2	40.8
G. A. Rumery	Queen	" "	662	6.2	41.2
W. T. Kilborn	Black Beauty	" "	778	5.3	41.9
A. R. Rexford	Mary Lee	" "	829	4.8	40.8
Geo. W. Gray	Geneva	" "	808	5.0	40.4
Geo. D. Hopkinson	Clara	" "	915	4.4	40.3
" "	Kate	" "	1040	4.0	41.6
" "	Phyllis	" "	821	4.7	38.5
C. A. Carpenter	Ina	" "	846	4.7	40.4
" "	Nina	" "	967	4.0	39.5
" "	Bonnie	" "	967	5.0	42.6
" "	Queen	Gr. Holst.	1351	4.0	54.9
Mrs. E. O. Silver	Brown Bess	" "	1013	4.1	41.4
" "	Queen	" "	1255	4.1	50.4
B. F. Butterfield	Sweet Eveline	Reg. Ayrshire	1354	3.2	43.1
" "	Ramly Rose	" "	1375	3.2	44.1
A. P. Niles & Son	Theresa	Reg. Jersey	870	4.8	40.4
" "	Esteline	" "	811	5.1	41.4
" "	Vanity	" "	1064	4.1	43.4
" "	Delle	" "	824	6.2	42.8
" "	Vivian	" "	887	5.3	47.0

W. L. Walker, Tester

### MEADOW BROOK ASSOCIATION

Month of February

Owner of Cow	Name of Cow	Breed of Cow	Lbs. Milk	Per Cent Fat	Lbs. Butterfat
N. C. Stevens	" "	Reg. Jersey	762	5.4	41.1
" "	" "	Gr. "	699	4.7	40.1
E. C. Baker	Pride	Reg. Holst.	1153	3.8	43.8
Albert Merriam	Rosebud	" Jersey	787	5.5	43.4
Lynn Anderson	" "	Gr. Holst.	1064	3.5	36.2
" "	" "	" "	1013	3.1	31.4
Armour Anderson	" "	Native	1005	4.6	46.3
" "	" "	Reg. Ayr.	1116	2.8	31.2
" "	" "	Gr. "	1125	3.9	43.9
Geo. Robinson	" "	" Jersey	909	4.3	45.9
Fox Hall Farm	" "	" "	1067	4.3	45.9
" "	" "	" Ayrshire	1107	3.8	42.1
" "	" "	" Jersey	1098	4.2	46.1
" "	" "	Gr. Holst.	1006	3.2	32.25
Howard Gray	" "	" "	1049	3.6	37.8

Carroll M. Lyon, Official Tester

### CRAFTSBURY ASSOCIATION

Period 30 Days

	Cow	of Cow	Breed	Milk	Fat	Fat
A. J. Smith & Son	2		Gr. Jersey	770	5.3	40.8
" " "	13		Reg. "	849	5.1	43.3
" " "	22		Gr. "	867	5.3	46.1
C. H. Root	Flossie		Reg. "	1296	6.1	79.1
" " "	Pearl		" "	1034	3.9	40.3
" " "	Star Buena		" "	909	5.9	53.6
" " "	Junama		" "	1193	5.1	60.8
" " "	Spotless		" "	979	5.4	52.9
" " "	Susan		" "	1113	4.9	54.5
" " "	Laura		" "	1058	5.7	60.3
W. C. Hadley	Veronia		" "	787	5.1	40.1
C. W. Urie			Gr. Guernsey	830	5.0	42.0
" " "	5		" "	1294	4.8	62.4
" " "	10		" "	924	4.8	44.0
J. W. Simpson	14		Jersey	989	4.4	41.4
Hines Bros	3		" "	828	4.9	40.0
" " "	7		" "	867	4.8	41.4
" " "	15		" "	802	4.9	44.4
" " "	18		" "	828	4.9	40.0
J. H. Findley	8		" "	817	4.9	40.0
" " "	15		" "	1028	4.9	50.0
Geo. B. Dunn	Ver		Reg. "	967	4.8	46.0